

PRODUCT DATA SHEET

SikaCeram[®]-102 PLUS

General Purpose, Cementitious Tile Adhesive

DESCRIPTION

SikaCeram[®]-102 PLUS is one-pack premixed adhesive consisting of high resistance cements, selected silicon/quartz mineral fillers and specific additives, used as tile adhesive for permanent fixing of ceramic tiles. Suitable for use in hot and tropical climatic conditions.

USES

- Suitable for bonding high absorption ceramic tiles
- Indoor application without primer over concrete, cement mortars, bricks
- Suitable for floor applications
- Suitable for moisture tolerant natural stones or marble, granite etc.

CHARACTERISTICS / ADVANTAGES

- Very good adhesion to most substrates (concrete, cementitious mortar, stone, bricks)
- Easy to mix and use
- Excellent workability and thixotropic consistency
- Can be applied in medium to thick layers for levelling purposes
- Can be modified with SikaLatex for porcelain and vertical application

APPROVALS / CERTIFICATES

SikaCeram[®]-102 PLUS complies to the requirements of ANSI 118.4 for shear strength, when modified with SikaLatex[®] complies to the requirements of ANSI 118.7

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates
Packaging	25, 50 kg bag
Appearance / Colour	Grey or white powder
Shelf life	12 months minimum from date of production.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture.

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 0.5 N/mm ² (28 d / 25°C) ≥ 1.0 N/mm ² (28 d / 25°C) modified with SikaLatex [®]	(EN 12004-2)
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APPLICATION INFORMATION

Mixing ratio	Add 7.5 L clean water per 50 kg (optional) SikaLatex [®] diluted with water (1:0.5) per 50 kg
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Fresh mortar density	~1.65 kg/l (25 °C)	
Consumption	The consumption depends on the surface profile, roughness of the substrate, size of the notched trowel used and the placing technique (simple placing "floating" or back to back "buttering-floating"). As a guide: For 1 mm thickness over 1m ² area approximately 1.65 kg of material. One 50 kg bag will cover approximately 15.1 - 10.1 m ² at 2 - 3 mm thickness.	
Layer thickness	Minimum 3.0 mm Maximum 30 mm	
Ambient air temperature	+5 °C min. / +35 °C max.	
Substrate temperature	+5 °C min. / +35 °C max.	
Pot Life	~45 min. (23 °C)	
Open Time	≥ 20 min. (23 °C)	(EN 1346)
Adjustability time	≥ 20 min. (23 °C)	
Applied product ready for use	Floor tiles can be grouted Full traffic / use	After 24 - 36 h After 14 d

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Protect freshly applied material from rain, wind, etc.
- Make a test area prior to carrying out any work with natural stone tiles. Moisture sensitive natural stones may require pre-treatment before laying, contact Sika Technical Department for more information.
- White version of tile adhesive is recommended for translucent natural stone tiles.
- It is not usually necessary to pre-dampen the tiles.
- For gypsum board substrate, primer need to be applied, please contact Sika Technical Department.
- SikaCeram®-102 PLUS shall not be applied on metal surfaces, wood & old ceramic tiles
- SikaCeram®-102 PLUS must be mixed with Sika Latex for fixing porcelain tiles and other non-absorbent stone ware.
- SikaLatex® must be mixed with SikaCeram®-102 PLUS for fixing Large tiles (side > 60 cm)

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be cement laitance free, clean, rough and free from dirt, oil, grease or other contaminants and loose or friable particles. Absorbent surfaces should be saturated thoroughly with clean water. The substrate must be perfectly flat, tight and free from parts easily removable, non-deformable and correctly aged. For any repairs of the substrate materials of SikaRep®, Sika MonoTop® or Sikafloor® Level range should be used, applied at least 24 hours before laying the ceramic coating.

MIXING

Mix 50 or 25 kg bag with the necessary, above mentioned, amount of water, using an electric blender with a suitable mixing spiral at low speed, in a clean bucket, and up to obtain a smooth paste free of lumps.
Use a blender at 500 rpm maximum; do not mix at faster rate because of mechanical strength decay of the cured product. After blending, leave the product curing for 5 minutes in the mixing container and then briefly stir the mix prior to application. The obtained mix results very creamy, easily spreadable and thixotropic.

APPLICATION

SikaCeram®-102 PLUS is applied using notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. Tiling has to be carried out on fresh glue, exerting an adequate pressure to ensure contact with the adhesive, and thus the perfect bonding. In case a surface film is formed on the adhesive, it is necessary to wipe the trowel on the adhesive layer previously applied. Avoid wetting with

water the adhesive already applied, it damages the adhesive.

To fix porcelain tile

SikaCeram®-102 PLUS when used for porcelain tiles, wet areas and wall application it is recommended to be mixed with SikaLatex®, as follows:
Stir SikaLatex® well before use. Pour the recommended amount into a suitable, clean mixing container. Stir slowly, whilst slowly adding the powder. Mix thoroughly using a low speed (<500 rpm.) drill mixer until the material is fully homogeneous and lump free. After mixing, leave the product to stand and 'mature' for a few minutes, then briefly stir again prior to application. The finished mix has a very creamy consistency, is uniformly coloured and it is easy to apply and spread.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 14001: Sika UAE LLC,
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OHSAS: Sika UAE LLC,
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

Product Data Sheet

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March 2021, Version 01.02

02171010200000363

SikaCeram-102PLUS-en-AE-(03-2021)-1-2.pdf

